

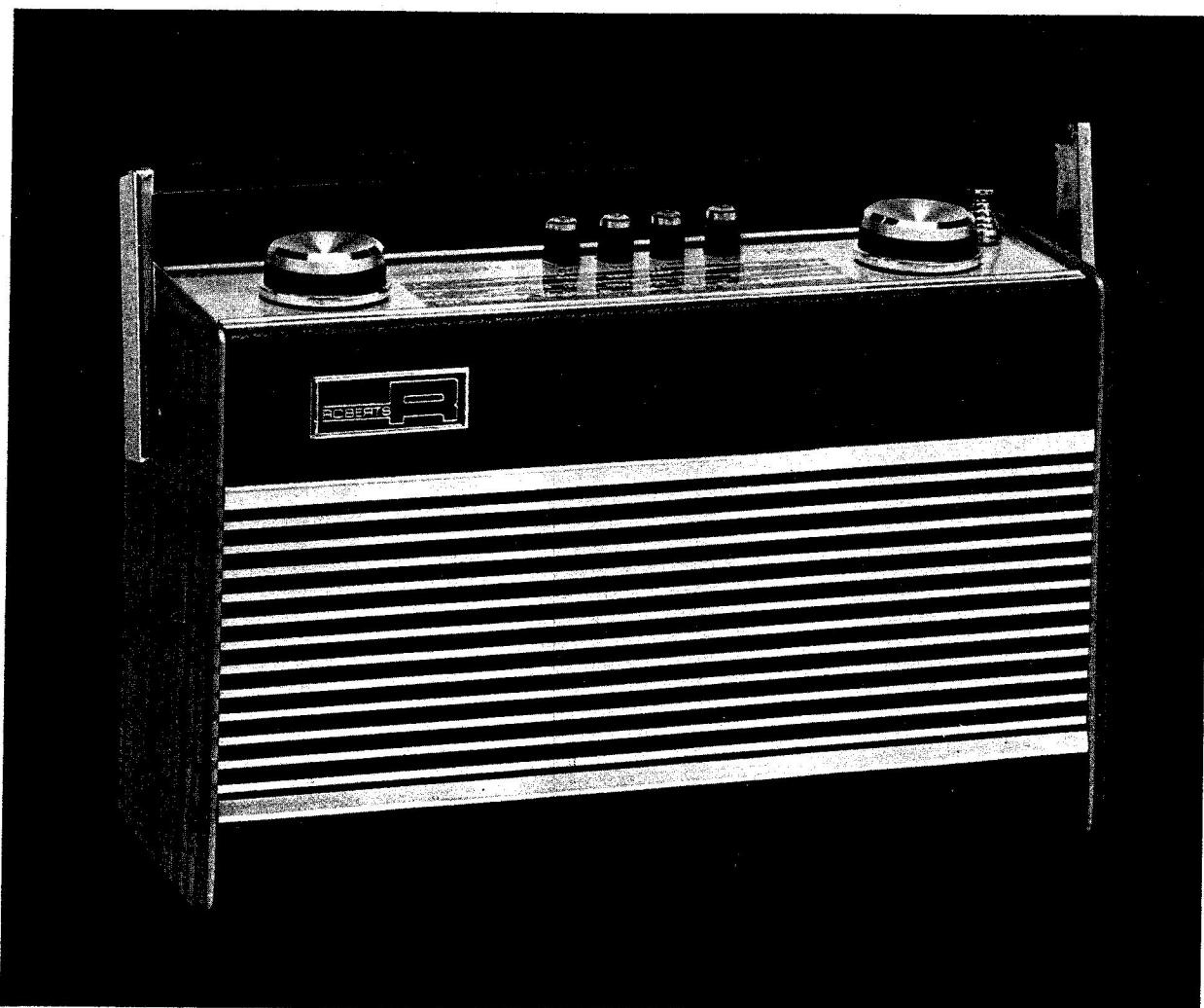


BY APPOINTMENT  
TO HER MAJESTY THE QUEEN  
RADIO MANUFACTURERS  
ROBERTS RADIO CO. LTD.

# THE ROBERTS R23

FM/AM Mains Battery Portable

## Technical Data



### SPECIFICATION

#### SEMICONDUCTORS

14 transistors  
10 diodes

#### WAVEBAND COVERAGE

MF 530-1620 kHz  
LF 150-265 kHz  
VHF 87.5-104.5 MHz

#### POWER OUTPUT

450 mW nominal, continuous sinewave

#### LOUDSPEAKER

100mm (4.0") round, 8 ohms impedance

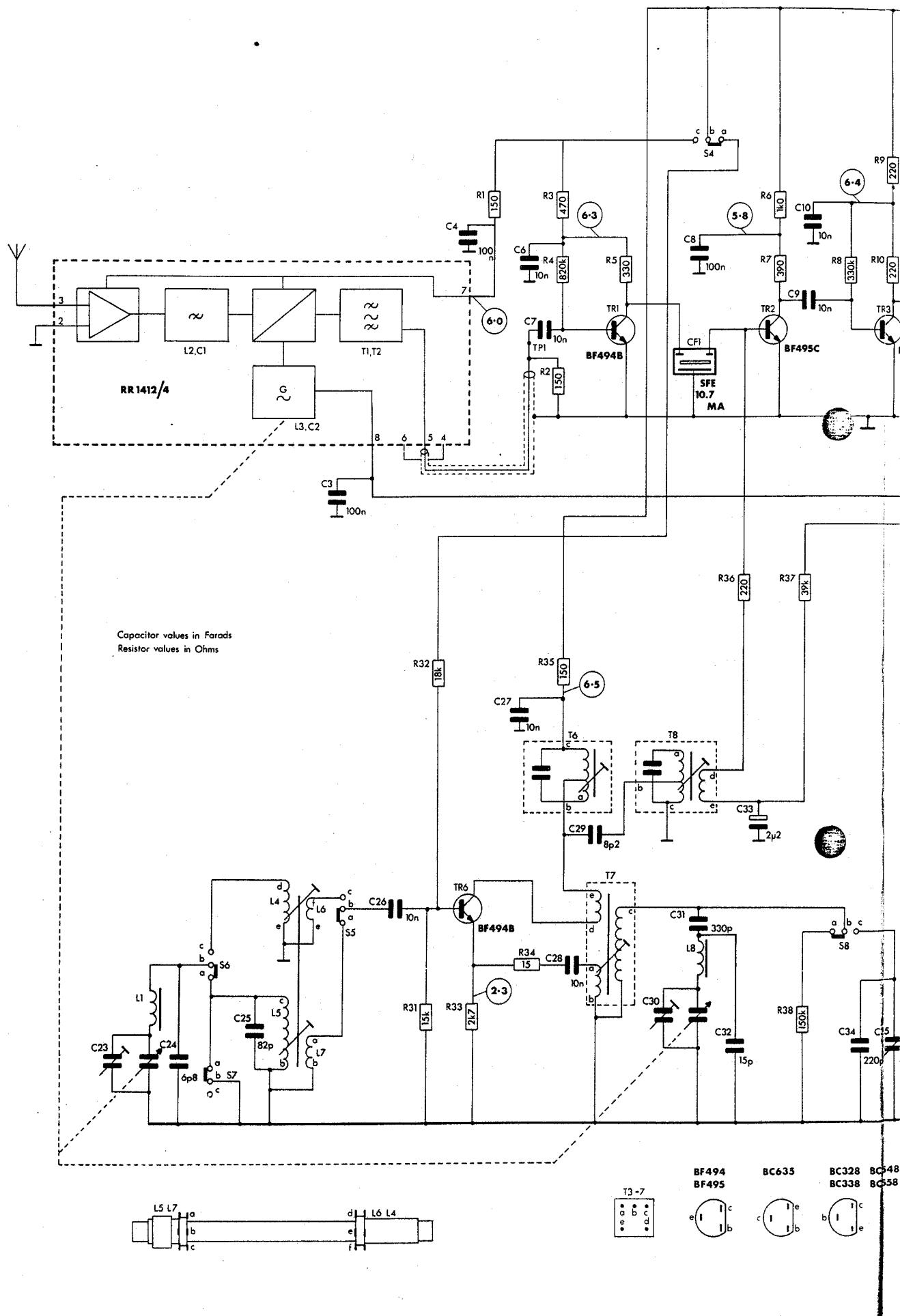
#### BATTERY MAINS SUPPLY

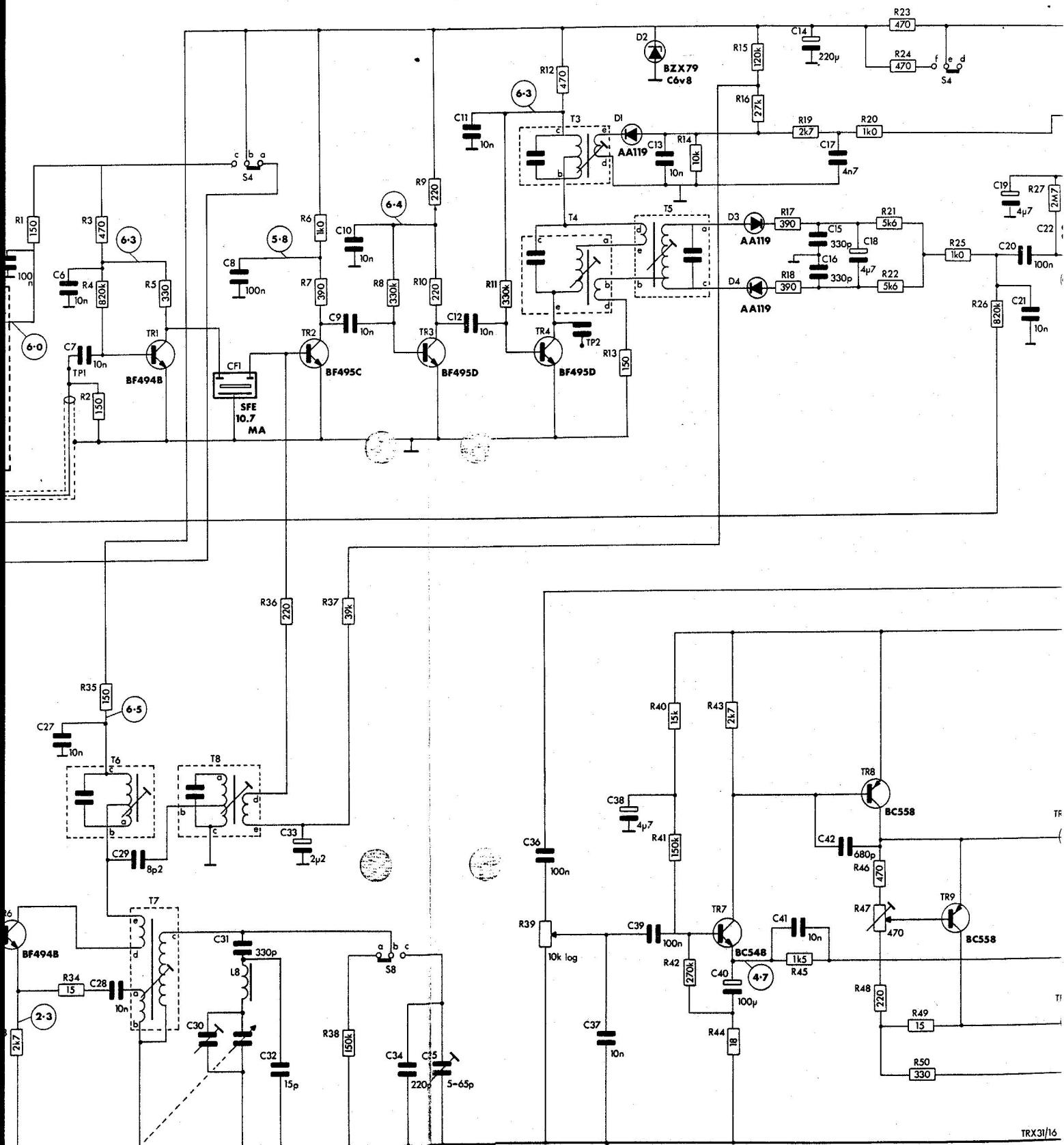
9 V PP9 (VT9) type 240 V ~ 50 Hz

### DISMANTLING

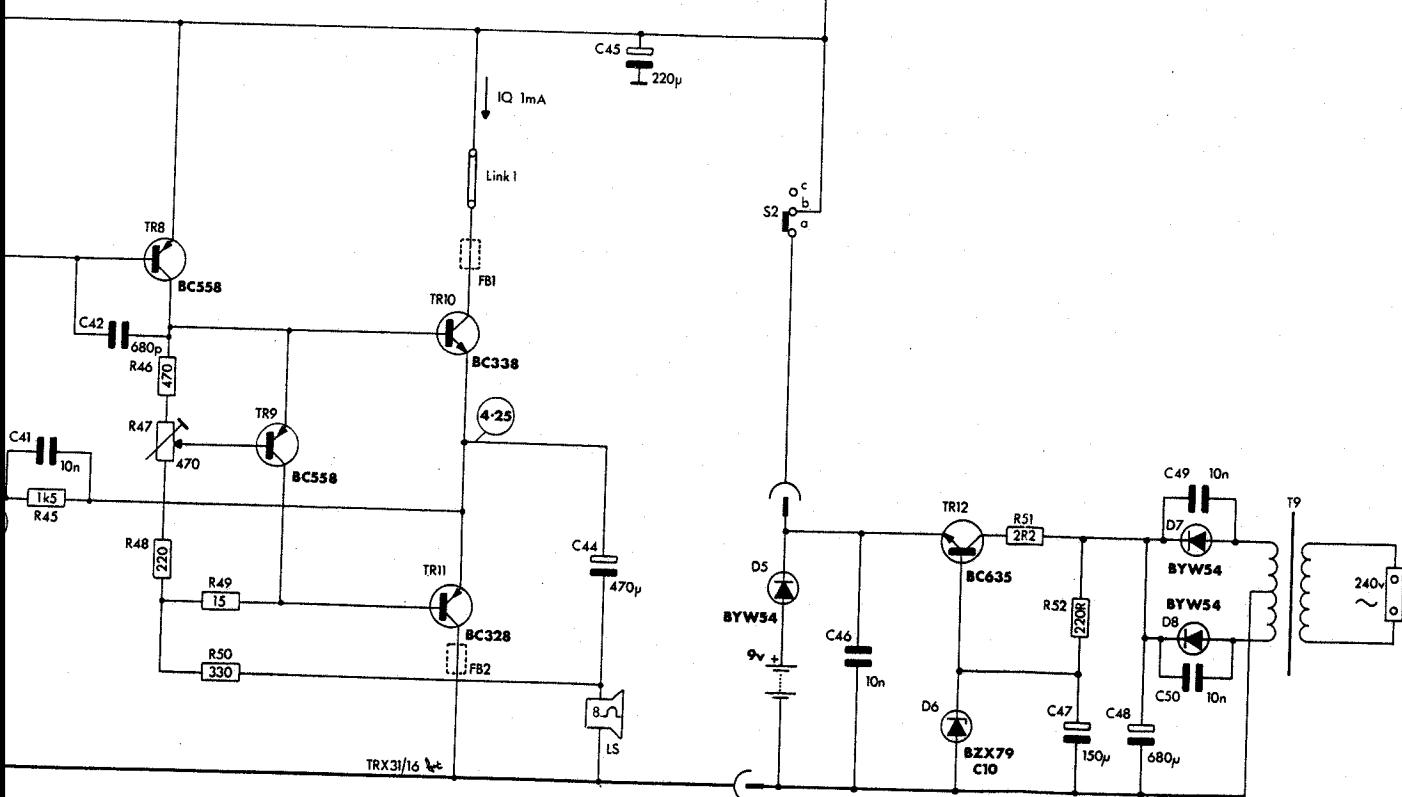
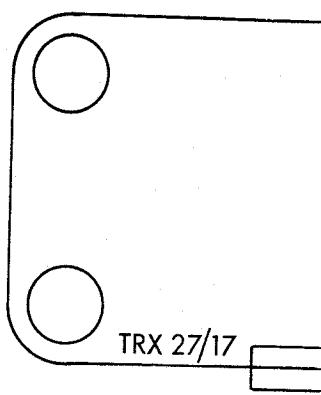
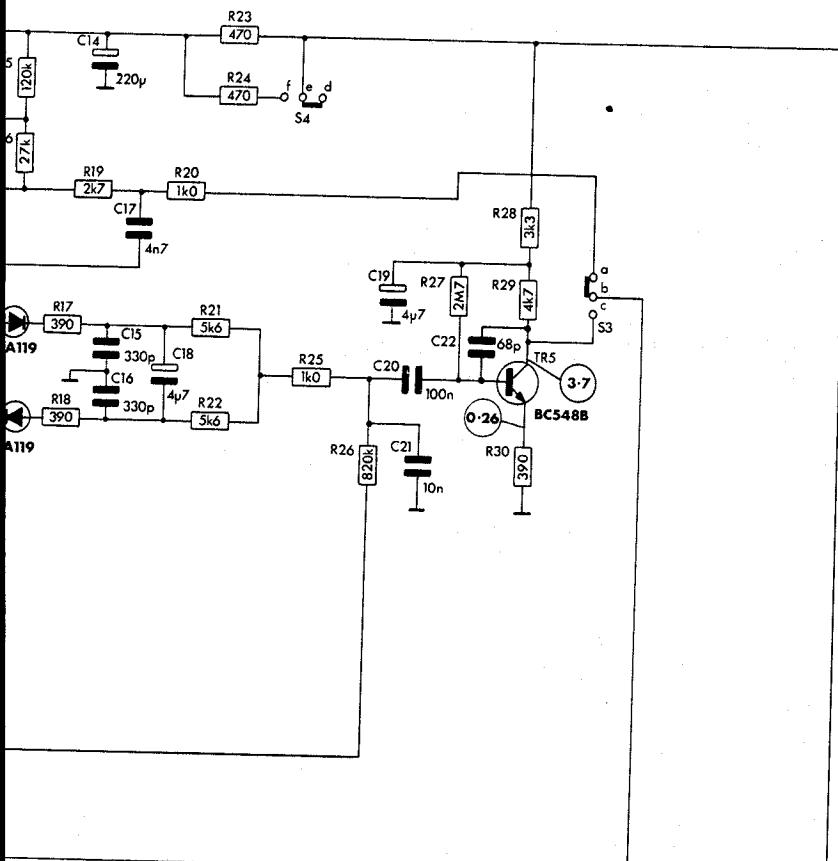
1. Remove screw securing PSU to rear of case. Remove PSU from bottom of case.
2. Remove screws securing fibre strips at either end of case and screw retaining telescopic aerial.
3. Ease complete chassis out from top of case.

## CIRCUIT DIAGRAM





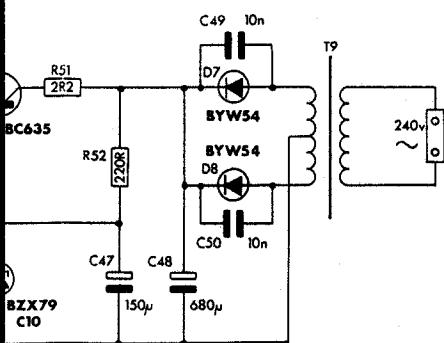
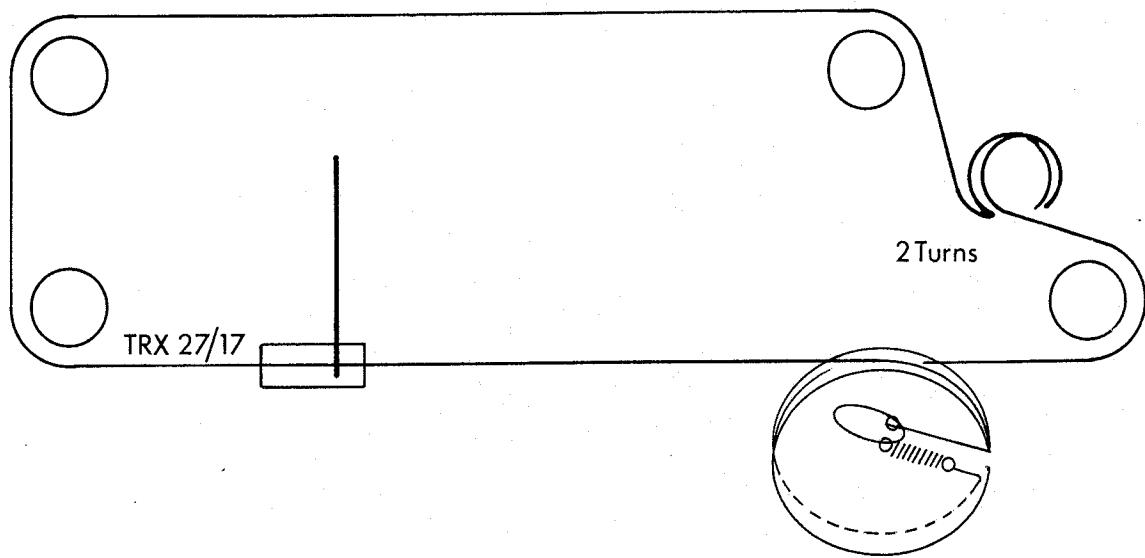
## CORD DRIVE DIAGRAM



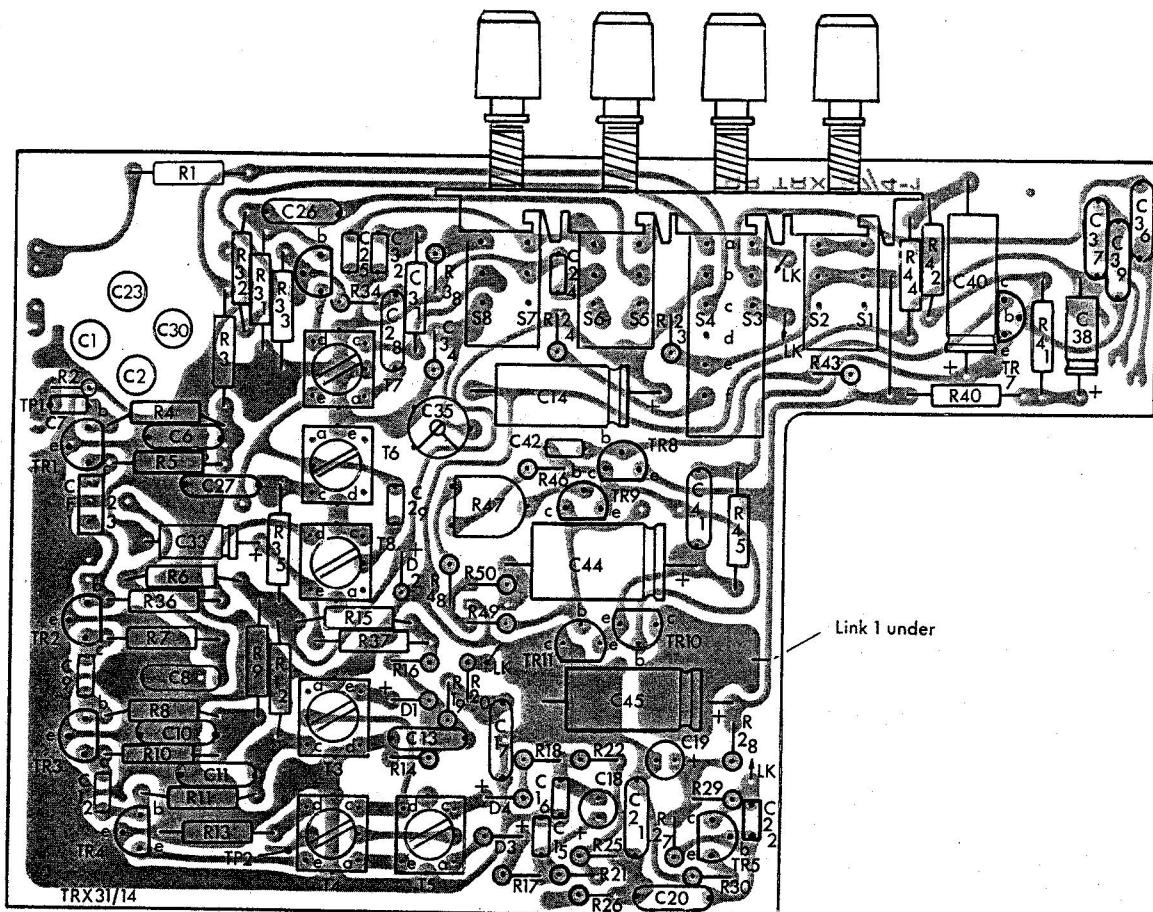
cation without notice

shown thus:—

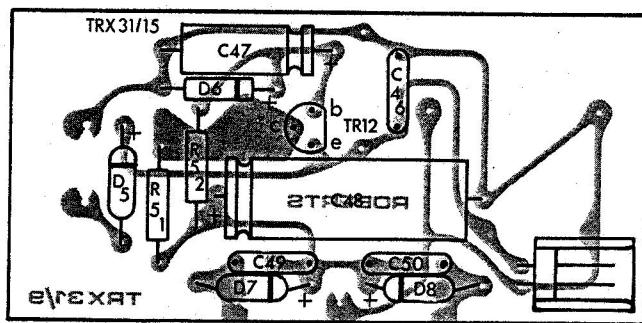
## CORD DRIVE DIAGRAM



## MAIN BOARD LAYOUT



## PSU BOARD LAYOUT



## ALIGNMENT

ENSURE:- GANG TO MAX (CLOCK), POINTER COINCIDES WITH DATUM MARKS AT RIGHT HAND END OF SCALE

WAVE-BAND	WAVE-POINTER	SWEEP/SIGNAL GENERATOR		INDICATOR	CONNECT	ADJUST	INDICATION
		INJECT	FREQUENCY				
1	—	—	—	—	mA Meter	R47	1 mA after 1 min at 20°C
2	MF	—	Across L4	470 kHz	25 kHz Deviation	In series with link 1 under Print Board (Vol Min)	
3	MF	HF Cal Mark	Via Coupling Loup	1500 kHz	30% AM	S3a & Chassis	T6, T8, T3
4	MF	LF Cal Mark	As 3	560 kHz	As 3	Across Loudspeaker	Max O/P & Symmetry Adjust I/P to maintain display height of 5 Divs
5	LF	HF Cal Mark	As 3	260 kHz	As 3	As 3	C30 & C23
6	LF	LF Cal Mark	As 3	156 kHz	As 3	As 3	Max O/P
For 7 & 8 maintain I/P below limiting (-3dB)							
7	VHF	—	TP1 Remove Screened Lead to Tuner	10.7 MHz*	1 MHz Deviation	TP2 via Diode Probe	T4
8	VHF	—	As 7	As 7	As 7	Junction R25 & R26 & Chassis	T5
							Max O/P & Symmetry S Curve Zero Crossing at Centre of IF -3dB Bandwidth

\* The actual IF is determined by the Ceramic Resonator